

Work Order ID 48602



Friday, June 26, 2009 9:17:08 AM



Page 1

Item ID: D3628-1 Accept  Setup Start 
Revision ID: B Stop 
Item Name: Cupped Washer
Start Date: 7/15/2009 Start Qty: 500.00  Cust Item ID:
Required Date: 8/3/2009 Req'd Qty: 500.00  Customer:

Reference:


Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start 
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop 

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D3628	Rev B

100  PURCHASING 0.00

Purchasing Memo 0.00
Purchasing Issue P/O: _____ ☐ Email or Ship DXF file to vendor ☐ Laser Cut
D3628-1 flat pattern and form as per Dwg D3628 ☐ Possible Supplier:
GFI ☐ Material release note is required

110  Receive & Inspect for Damage & Mat'l Certs 0.00

Packaging Memo 0.00
Packaging Ensure material certification is attached

120  QC6- Inspect dimensions to drawing 0.00

QC Memo 0.00
Quality Control

Rec'd 7/1/09 500

counts
(x 500) 0

27 S 02/02/17

Work Order ID 48602

Friday, June 26, 2009 9:17:08 AM

Page 2

Item ID: D3628-1

Accept

Revision ID: B

Item Name: Cupped Washer

Start Date: 7/15/2009 Start Qty: 500.00

Required Date: 8/3/2009 Req'd Qty: 500.00

Reference:

Cust Item ID:

Customer:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run

Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

Identify as per dwg & Stock Location: _____

0.00



Packaging

Memo

0.00

Packaging

P. 9/7/17 500

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

09/07/17

MF
09-07-17

Date: Tuesday, 16/06/2009 8:17:57 AM
 User: Chantal Lavoie

Process Sheet

Customer :	CU-DAR001 Dart Helicopters Services	Drawing Name :	CUPPED WASHER
Job Number :	48602		
Estimate Number :	12885		
P.O. Number :		Part Number :	D36281
This Issue :	16/06/2009	S.O. No. :	
Prsht Rev. :	NC	Drawing Number :	D3628 REV B
First Issue :	//	Project Number :	N/A
Previous Run :	43033	Drawing Revision :	B
Written By :		Material :	
Checked & Approved By :	<u>C209106116</u>	Due Date :	06/07/2009
Comment :	Est Rev:A New Issue 07-05-28 JLM Est Rev:B Removed Powder 07-07-11 JLM		

Qty: 500 Um: 200 Each

Additional Product

Job Number:



Seq. #:	Machine Or Operation:	Description :
1.0	PG	PURCHASING
	Comment: Issue P/O: <u>8980</u> <u>C209106116</u> Email or Ship DXF file to vendor Laser Cut D3628-1 flat pattern and form as per Dwg D3628 <u>500</u> Possible Supplier: GFI Material release note is required	
2.0	D36281	Cupped Washer
	Comment: Qty.: 1.0000 Each(s)/Unit Total : 200.0000 Each(s) CUPPED WASHER	
3.0	PACKAGING 1	PACKAGING RESOURCE #1
	Comment: PACKAGING RESOURCE #1 Receive & Inspect For Transit Damage Ensure material certification is attached	
4.0	QC6	DIMENSIONAL CHECK
	Comment: DIMENSIONAL CHECK <u>QSD017</u> <u>8 05/07/17</u> <u>570</u> <u>count</u>	
5.0	PACKAGING 1	PACKAGING RESOURCE #1
	Comment: PACKAGING RESOURCE #1 Identify with P/N and B/N using a permanent fine point marker on under side of part, then Stock Location: _____	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: ** Tuesday, 16/06/2009 8:17:57 AM
User: Chantal Lavoie

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: CUPPED WASHER

Job Number: 48602

Part Number: D36281

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

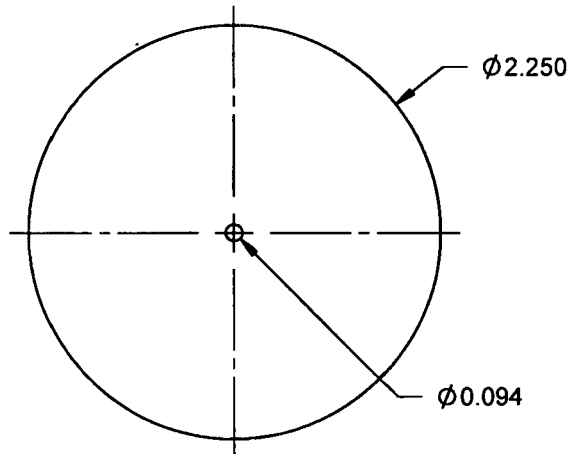
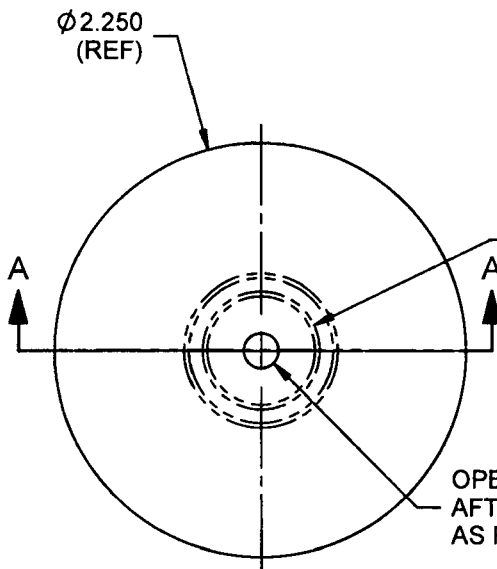
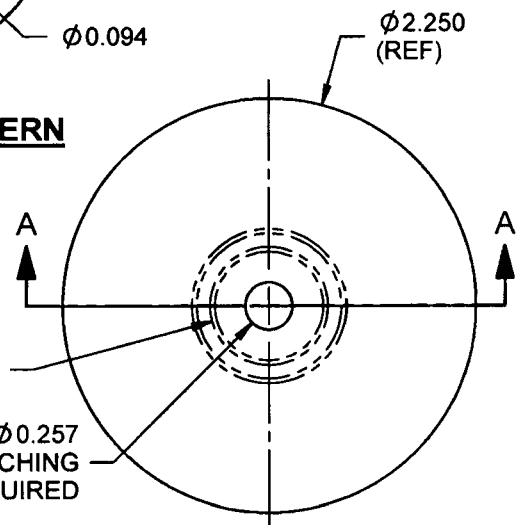
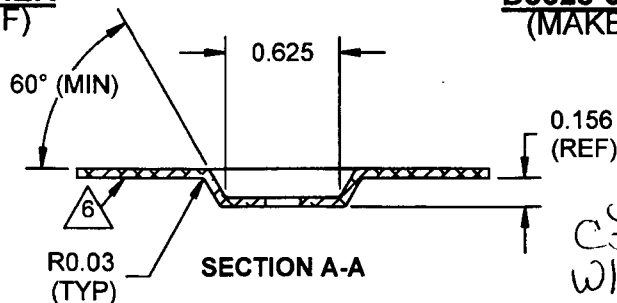
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART

DESIGN CB	DRAWN BY CB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED CE	APPROVED [Signature]	DRAWING NO. D3628	REV. B SHEET 1 OF 1
DATE 07.07.09		TITLE CUPPED WASHER	SCALE 1:1
REV	DATE	DESCRIPTION	
A	07.06.08	NEW ISSUE	
B	07.07.09	REMOVE POWDER COAT	

RELEASED07.07.09 **[Signature]****D3628-1F FLAT PATTERN****D3628-1 CUPPED WASHER**
(MAKE FROM D3628-1F)PUNCH $\phi 0.64 \times 0.16$ DEEPPUNCH $\phi 0.64 \times 0.16$ DEEPOPEN TO $\phi 0.191$
AFTER PUNCHING
AS REQUIREDOPEN TO $\phi 0.257$
AFTER PUNCHING
AS REQUIRED**D3628-3 CUPPED WASHER**
(MAKE FROM D3628-1F)**SECTION A-A****NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 18 GAUGE (0.050 THICK) PER MIL-S-5019 (REF DART SPEC M304S18GA)
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.010 MAX
- 6) IDENTIFY WITH DART P/N "D3628-1/-3" USING FINE POINT PERMANENT INK MARKER ON THE UNDERSIDE OF THE PART AS INDICATED
- 7) WHEN DRILLING OUT THE CENTRE HOLE AFTER PUNCHING, ENSURE THAT THE HOLE IS DRILLED CONCENTRIC TO THE CUPPED AREA, WITHIN 0.03

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SPECIFICATION CONTROL DRAWING

REFERENCE ONLY

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
2B FINISH

SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

PART NUMBER: M304S|TT GA
GA

WHERE "TT" = GAUGE THICKNESS

EG. 16 GAUGE SS SHEET = M304S16GA

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176

CONTROLLED COPY

RELEASED
09/06/01

48602

B	REFORMAT DWG, ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR C8-020A	CP	09.06.01
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.06.01		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. M304S	REV. B SHEET 1 OF 1
TITLE 304/316 SS SHEET	SCALE NTS
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180 AVENUE LABROSSE
POINTE-CLAIRE, QUÉ., CANADA H9R 1A1
TÉL.: (514) 630-4877 - FAX: (514) 630-4849

GFI est une division de Thomas & Betts Fabrication Inc. / GFI is a division of Thomas & Betts Manufacturing Inc.

ACHETÉ PAR / SOLD TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON, K6A 1K7



BON DE LIVRAISON - SHIPPING MEMO

DATE DE LIVRAISON SHIPPING DATE	N° BON DE LIVRAISON SHIPPING MEMO NO.
2009/07/15	0421779

EXPÉDIÉ À / SHIPPED TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON, K6A 1K7

CODE DE CLIENT CUSTOMER CODE	N° DE CONTRAT JOB NO.	N° COMMANDE PO NO.	VIA SHIP VIA
DART GFI-0299	J0201956	PO0C008980	
QUANTITÉ QUANTITY	VOTRE N° DE PIÈCE YOUR PART NO.	DESCRIPTION	
500	D36281	CUPPED WASHER CERTIFICATE OF CONFORMANCE REQ	

S
09/07/17

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

RECU PAR / RECEIVED BY

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577

PURCHASE ORDER

Purchase Order ID 8980

Purchase Order Date 25/06/2009

PO Print Date 25/06/2009

Page Number 1 of 1

Order From :

VC-GFI001

GFI
180 AVENUE LABROSSE
POINTE CLAIRE, QC H9R 1A1
CA

Contact Name

Vendor Phone 514 630 4877

Vendor Fax 514 630 4849

Vendor Account Nbr

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Net 30

Currency

CAD

FOB

Ship To :

MAIN WAREHOUSE

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D3628-1P	CUPPED WAHSER	25/06/2009 Yes	500.00 Each	✓	\$2.4160	\$1,208.00

Line Total: \$1,208.00

PO Total: \$1,208.00

Change Nbr: 1

Change Date: 25/06/2009

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE
POINTE CLAIRE, QC
H9R 1A1

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO. 3 OUR JOB NO. J0201956 SHIPPING MEMO 042779 89/02/12

ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME	DWG ISSUE
--	500 PCS	PO00008980	D36281	B	CUPPED WASHER	B

MATERIAL AMS 5513 304 ANN SUPPLIED BY TW METALS / ALLEGHENY LUDLUM MAT. REL. NO. H/N # 828159

	PROCESS	PROCESSOR	RELEASE NOTE #
1	FIRST ARTICLE INSPECTION REPORT ON FILE	GFI	CONFORMS
2			
3			
4			
5			
6			
7			
8			
9			

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 15 JULY 2009

G.F.I. Q.C. REP. Rattan



DP12-001 REV 0 Bombardier Certificate of Compliance
TW Metals District Procedure

Revision: 0

Revision Date: 04-03-00

Superseding Initial

Page 1 of 1

CERTIFICATE OF COMPLIANCE

FRAUD AND FALSIFICATION STATEMENT

The recording of false, fictitious, or fraudulent statements or entries on this document may be punished as a felony under federal statutes including federal law Title 18 chapter 47

CERTIFICATE OF COMPLIANCE

This certificate of compliance certifies that the material supplied on the purchase order number below complies in all respects with the material description and procurement specifications.

MERCURY FREE STATEMENT

We certify that mercury, radium, or alpha bearing instruments and / or equipment which might cause contamination have not been used in the manufacture, fabrication, assembly or testing of any material supplied by TW Metals Inc. Switches, glass thermometers, standard cell and other items containing the above elements may be used, but they will be located so as not to constitute a contamination hazard.

CUSTOMER NAME

GFI

PURCHASE ORDER No

0075672

ITEM No

0001

SHIPPER INVOICE No.

03249399

MATERIAL

304 S/S Sheet

SPECIFICATION

AMS 5513

MANUFACTURING MILL

ATI Allegheny Ludlum

SIZE

.050

HEAT / LOT No

828159

PART No

TS05048X964A

QUANTITY:

1 EA.

TEST DEPARTMENT CLERK

Amy Davis

AUTHORITY

Joe Schab

Director of Quality Assurance


S
09/07/17

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NOTICE OF SHIPMENT/
PACKING LIST

CERTIFICATE OF TEST

AL 415-2 908

PACKING LIST				 <small>Airmail</small>		PRODUCT CODE		MAIL ORDER NUMBER		DATE SHIPPED	
CUSTOMER INFO & DATE				CUSTOMER INFO		SHIPPER NO.		SHIPMENT NO.		INVOICE	
01013867				02/04/09 110977		VANDERGRIFF, PA. 416619		230201C2060000 30-029-053		03/27/09	
FORMS DISTRIBUTION				REPEAT OFFER		DO NOT CONTRACT		SHIPMENT LOCATION			
SOLD TO				B2037 5 251				1124 VANDERGRIFF		PA 654693	
				PRIME SEC.				SHIP TO			
				DSO DSO							
				584							

CARRIER - SYSTEM TRANSPORTATION

GRADE AND SPECIFICATIONS

ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2248F) (AMS 5511H) (AMS 5513H) (AMS 5516H) (ASTM-A-262-02A PRA E/SCREEN PRA A) (ASTM-A-665-03) (S-400 DTD 10/31/07) (ASTM-A-240-08) (S-100C DATED 1/2/08) (ASME-SA-240-07) (10/22/08 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (UNS S30400) (UPM-QRS-301) (PWA 300 REV BH) (F-14, F-17, F-22, F-23, R-MASTER)

[CONTROLLED TO PWA LCS REQUIREMENTS]

ITEM PCS DIMENSIONS W/G/L

001 1 48./-050/2235.
C CUST IDENTITY 00624
1. SKIC

TYPE HEAT/TEST
HEAT 628159
CHECK 6759819

ITEM TEST NO
~~001-8759819~~

ITEM TEST NO.
001 8755819

METALLOGRAPHIC MAGNIFICATION: 100X ETCHANT USED: OXALIC ACID

GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

PAGE 21 - CONTINUED ON PAGE 62

[illegible]

Material Ready Data Sheets for this product have been made up for you. Purchasing Department. For an immediate copy, phone 724-236-5177. Call for information on various types of data, such as chemical, physical, and biological. See Material Safety Data Sheets for further information.

Training

DRIVE
Les terres d'exceptionnelles qualités de nos provinces ont été reconnues et valorisées par le département agricole de la Région. Pour faciliter aux agriculteurs les opérations de vente, le département a mis à leur disposition un service téléphonique et un service de livraison. Les agriculteurs peuvent ainsi vendre leurs produits directement aux consommateurs. Pour plus de renseignements, adressez-vous au Service Agricole de la Région.

This is a true copy of the original. The original and its
 copies are to be kept in the custody of the Secretary of the
 Board of Directors of the United States National Bank, at
 New York, New York, until the Board of Directors shall order
 otherwise.
 Very Respectfully,
 (Signed) Secretary of the Board of Directors

TW METALS

JUN 19 2009

ACCEPTED BY

NOTICE OF SHIPMENT/
PACKING LIST

CERTIFICATE OF TEST

AL 0150-2 008

CUST. ORD. NO. & DATE 01013887	CUST. CODE 02/04/09 110977	ACCEPTING MFG. VANDERGRIFF, PA.	SHIPPER NO. 416619	PRODUCT CODE 13020102060000	HAL ORDER NUMBER 30-029-053	DATE SHIPPED 03/27/09
FORME USE POSITION SOLD TO	REPEAT ORDER 52037-5	DO NOT MAKE CHGTY 26	COYD CONTRACT	MATL 1124	SHIPPING LOCATION VANDERGRIFF PA	PO BOX 654693
	PRIME SEC. DSO DSO			SHIP TO		

GRADE AND SPECIFICATIONS

CARRIER - SYSTEM TRANSPORTATION
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2248F) (AMS 5511H) (AMS 5511H) (AMS 5516P) (ASTM-A-262-02A PRA E/SCREEN PRA A) (ASTM-A-666-03) (S-400 DTD 10/31/07) (ASTM-A-240-08) (S-1000 DATED 1/2/08) (ASME-SA-240-07) (30/22/08 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (UNS S30400) (UPM-QRS-001) (PWA 300 REV BH) (F-14, F-17, F-22, F-23, F-MASTER) (CONTROLLED TO PWA LCS REQUIREMENTS)

AUSTENITIC STAINLESS STEELS ARE SOLUTION ANNEALED AT 1800 DEGREES FAHRENHEIT MINIMUM (1038 C), AND RAPIDLY COOLED TO DEVELOP THE SPECIFIED PROPERTIES. EVIDENCE OF CONFORMANCE IS PROVIDED BY THE ABILITY OF THE MATERIAL TO MEET THESE SPECIFIED MECHANICAL AND CORROSION REQUIREMENTS

ALLEGHENY LUDLUM DOES NOT USE MERCURY IN THE TESTING OR PRODUCTION OF ITS PRODUCTS. TO THE BEST OF ALLEGHENY LUDLUMS KNOWLEDGE, UNDERSTANDING, AND BELIEF, THIS MATERIAL WAS NOT CONTAMINATED BY MERCURY WHILE IT WAS BEING PRODUCED IN OUR FACILITIES.

NO WELDS/WELD REPAIRS PERFORMED.

THE NUMERIC CODES SHOWN UNDER MELT SOURCE CAN BE INTERPRETED AS FOLLOWS:

1. - MATERIAL MELTED AND ROLLED IN THE UNITED STATES AND COMPLIES WITH DEARS EDITION 1995, SECTION 252-225-7014
2. - FOREIGN MELT AND ROLLED IN THE UNITED STATES

TW METALS

TEST

JUN 1 - 2009

Jm

ACCEPTED BY

REPORTS

PAGE 02 - CONTINUED ON PAGE 03

03/27/09 08:56:59

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Allegheny Ludlum
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/
PACKING LIST

CERTIFICATE OF TEST

AL 8169-3-908

CUST. ORG. NO. & DATE 01013887	CUST. CODE 02/04/09 110977	SHIPMENT NO. VANDERGRIFF, PA. 416619	PRODUCT CODE 13020102060000	MILL ORDER NUMBER 30-029-053	DATE SHIPPED 03/27/09
SHIP TO 1	SHIP TO 1	SHIP TO 1	SHIP TO 1	SHIP TO 1	SHIP TO 1
SOLD TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015	SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015	SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015	SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015	SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015	SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015

GRADE AND SPECIFICATIONS
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 28 FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2248F) (AMS 5511K) (AMS 5513N) (AMS 5516P) (ASTM-A-262-02A PRA E/SCREEN PRA A) (ASTM-A-666-03) (IS-400 DTD 10/31/07) (ASTM-A-240-08) (IS-1000 DATED 1/2/08) (ASME-SA-240-07) (10/22/08 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (AMS 530400) (UPM-QRS-001) (PWA 300 REV BH) (F-14, F-17, F-22, F-23, F-MASTER) (CONTROLLED TO PWA LCS REQUIREMENTS)

CARRIER - SYSTEM TRANSPORTATION

THIS CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ALC QUALITY MANUAL REVISION 17 DATED 05/12/2008. ALC HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001, DIN EN 10204:2005 - 3.1. ALLEGHENY LUDLUM IS APPROVED AS A MANUFACTURER ACCORDING TO AD-MERK BLATT WO/TRD100 AND THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC. TESTING WAS PERFORMED AT ALC NADCAP AND ISO/IEC 17025 APPROVED LABORATORIES LOCATED AT NATRONA HEIGHTS, BRACKENRIDGE, LATROBE, AND MIDLAND. PA FACILITIES OR A NADCAP AND ISO/IEC 17025 ACCREDITED LABORATORY.

ATI-ALLEGHENY LUDLUM HOLDS SEVERAL QUALITY AND LABORATORY CERTIFICATIONS THAT INCLUDE ISO-9001:2000, AS5100, AD 2000-MERKBLATT WO, AND EU PRESSURE EQUIPMENT DIRECTIVE 97/23/EC. NADCAP MATERIALS TESTING, ISC/IEC 17025, GEAE S400, GEAE S1000. REFER TO WWW.ALLEGHENYLUDLUM.COM TO ACCESS THE CURRENT ATI-AL QUALITY CERTIFICATIONS.

ALLEGHENY LUDLUM WORKS TO THE ROLLS ROYCE RR9000 SABRE REQUIREMENTS.

MATERIAL TESTED AT ALLEGHENY LUDLUM GEAE S400 (DATED 10/31/07) APPROVED FACILITIES:
NATRONA HEIGHTS TECHNICAL CENTER AND BRACKENRIDGE, PA.

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Don't make. Please note: The certificate was issued over a year in the construction, being correctly noted as which the responsibility to the design and construction of the part. The certificate is not a guarantee of the quality of the part. The certificate is not a guarantee of the quality of the part. The certificate is not a guarantee of the quality of the part.

Warning: Safety Data Sheet for this product can be found at the end of the certificate. For an additional copy, please call 724-225-6677. CAUTION: This certificate is not a guarantee of the quality of the part. The certificate is not a guarantee of the quality of the part. The certificate is not a guarantee of the quality of the part.

Warning: Les informations relatives à ce produit se trouvent à la fin du certificat. Pour obtenir des renseignements supplémentaires, veuillez téléphoner au service client 724-225-6677. ATTENTION: Ce certificat n'est pas une garantie de la qualité du produit. Ce certificat n'est pas une garantie de la qualité du produit. Ce certificat n'est pas une garantie de la qualité du produit.

The above is a true copy of the certificate. The material was tested in accordance with the test method specified in the certificate. The material was tested in accordance with the test method specified in the certificate. The material was tested in accordance with the test method specified in the certificate.

TW METALS

TEST

JUN 19 2009

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The above is a true copy of the original and has been compared with the original and found to be correct.

T. J. McNeil
 Vice President
 Chicago, Colorado Guaranty Association